

Fifth Grade Math Pacing Guide

A Year at a Glance 2016 – 2017

Math Investigations Unit		Time Frame	CC Math Standards
Quarter 1	<p>*Begin the year by spending a few days introducing the Mathematical Practices and establishing your mathematical community.</p> <p>Unit 1 – Number Puzzles and Multiple Towers <i>Multiplication and Division 1</i> (23 Lessons, 24 Days)</p> <p>Investigation 1: Finding Facts and Prime Factors – 7 Lessons</p> <p>Investigation 2: Multiplication Strategies – 8 Lessons (Additional Lesson -- Session 2.4A: Order of Operations)</p> <p>Investigation 3: Division Strategies – 8 Lessons</p>	<p>August 29 – September 30 5 weeks</p>	<p>5.OA.1 5.OA.2</p> <p>5.NBT.5 5.NBT.6</p>
	<p>Unit 2 – Prisms and Pyramids <i>3-D Geometry and Measurement</i> (12 Lessons, 10 Days)</p> <p>Investigation 1: Finding the Volume of Boxes – 8 Lessons (Additional Lesson -- Session 1.5A: Finding the Volume of Solids)</p> <p>Investigation 2: Using Standard Cubic Units – 4 Lessons (Replace Session 2.4 with Session 2.4A: End-of-Unit Assessment)</p> <p>Investigation 3: Volume Relationships Among Solids – Omit</p>	<p>October 3 – October 14 2 weeks</p>	<p>5.MD.3 5.MD.4 5.MD.5</p> <p>5.OA.1 5.NBT.5 5.NBT.6</p>
	<p>Unit 4 – What’s That Portion? Part I <i>Fractions and Percents 1</i> (11 Lessons, 15 Days)</p> <p>Investigation 1: Using Percents and Fractions – 5 Lessons</p> <p>Investigation 2: Comparing and Ordering Fractions – 6 Lessons</p> <p>*Introduce and review fraction concepts using portions of Investigations 1 and 2. This unit is divided into 3 parts and taught throughout the year.</p> <p>*Select lessons and activities to reinforce fraction concepts based on your students’ needs.</p>	<p>October 17 – November 4 3 weeks</p>	<p>5.NF.1 5.NF.2 5.NF.3 5.NF.4 5.NF.5 5.NF.6 5.NF.7</p>
	<p>Unit 4 – What’s That Portion? Part II <i>Fractions and Percents 1</i> (10 lessons, 20 Days)</p> <p>Investigation 3: Adding and Subtracting Fractions – 10 Lessons</p> <p>*Continue work with fractions using Investigation 3 of Unit 4.</p> <p>*Additional lessons and supplemental resources will be needed to address the fraction concepts related to addition and subtraction.</p>	<p>November 7 – December 9 4 weeks</p>	<p>5.NF.1 5.NF.2</p>
Quarter 2	<p>Unit 3 – Thousands of Miles, Thousands of Seats <i>Addition, Subtraction, and the Number System</i> (13 Lessons, 7 Days)</p> <p>Investigation 1: Using Place Values – 5 Lessons</p> <p>Investigation 2: Studying Subtraction – 3 Lessons (Omit Sessions 2.4-2.5)</p> <p>Investigation 3: Adding and Subtracting with Large Numbers – 5 Lessons</p> <p>*Addition/Subtraction is not a critical area in fifth grade. Sessions in this unit may be combined depending on students’ computational fluency.</p>	<p>December 12 – December 20 1.5 weeks</p>	<p>5.NBT.1 5.NBT.5 5.NBT.6</p>
	<p>Unit 6 – Decimals on Grids and Number Lines <i>Decimals, Fractions and Percents 2</i> (29 Lessons, 31 Days)</p> <p>Investigation 1: Understanding and Comparing Decimals – 11 Lessons (Additional Lesson -- Session 1.5A: Rounding Decimals)</p> <p>Investigation 2: Adding Decimals – 9 Lessons (Additional Lesson -- Session 2.5A: Decimal Subtraction Problems)</p>	<p>January 3 – February 17 6 weeks</p> <p>*Continue unit into Quarter 3</p>	<p>5.NBT.1 5.NBT.2 5.NBT.3 5.NBT.4 5.NBT.7 5.NF.3</p>

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Quarter 3	Investigation 3A: More Decimal Operations – 9 Lessons (Additional Lessons -- Sessions 3A.1 – 3A.9) *Standard 5.MD.1 (measurement conversions within systems) is integrated into Investigation 3A (Sessions 3A.8 – 3A.9). Additional lessons may be needed to address this standard.		5.MD.1 5.OA.1
	Unit 4 – What’s That Portion? Part III <i>Fractions and Percents 1</i> (10 lessons, 25 Days) Investigation 4A: Multiplying and Dividing Fractions – 10 Lessons *Continue work with fractions using Investigation 4A of Unit 4. *Additional lessons and supplemental resources will be needed to address the fraction concepts related to multiplication and division.	February 20 – March 24 5 weeks	5.NF.3 5.NF.4 5.NF.5 5.NF.6 5.NF.7
	Unit 9 – How Long Can You Stand on One Foot? <i>Data Analysis and Probability</i> (3 Lessons, 4 Days) Investigation 1: Comparing Balancing Data – 3 Lessons (Additional Lessons -- Session 1.5A: Fractions on a Line Plot and Session 1.6A: End-of-Unit Assessment) Investigation 2: Collecting Data from Experiments – Omit Investigation 3: Fair and Unfair Games – Omit *Additional lessons will be needed to address standard 5.MD.2 (representing fractional measurements on a line plot).	March 27 – March 30 1 week	5.MD.2
Quarter 4	Unit 7 – How Many People? How Many Teams? <i>Multiplication and Division 2</i> (20 Lessons, 10 Days) Investigation 1: Equivalence in Multiplication and Division – 4 Lessons Investigation 2: Reviewing Multiplication Strategies – 4 Lessons Investigation 3: Division Strategies and Notation – 7 Lessons Investigation 4: Using the Operations – 5 Lessons *Sessions in this unit may be combined depending on students’ computational fluency with multiplication and division.	April 3 – April 21 2 weeks	5.NBT.5 5.NBT.6 5.OA.2
	Unit 5 – Measuring Polygons <i>2-D Geometry and Measurement</i> (4 Lessons, 5 Days) Investigation 1: Polygons: Names, Properties, and Angles – 4 Lessons (Omit Sessions 1.5 – 1.7) Investigation 2: Finding Perimeter and Area of Related Rectangles – Omit Investigation 3: Similarity – Omit *Additional lessons will be needed to address the geometry standards.	April 24– April 28 1 week	5.G.3 5.G.4
	Unit 8 – Growth Patterns <i>Patterns, Functions, and Change</i> (5 Lessons, 5 Days) Investigation 1: Height and Growth – 2 Lessons (Omit Sessions 1.1 – 1.2, 1.5) Investigation 2: Growing Patterns – 3 Lessons (Omit Sessions 2.2, 2.5 – 2.8) *Several lessons may be combined to allow more practice with coordinate planes and algebraic concepts such as equations and patterns.	May 1 – May 5 1 week	5.OA.1 5.OA.2 5.OA.3 5.G.1 5.G.2
	Review & EOG Tests *Unit 5 (Investigation 2) and 9 (Investigation 2) can be used for enrichment activities at the end of the year.	5 weeks	